



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/630,720	07/31/2003	Seong Ho Kang	YHK-0114	9367
34610	7590	05/19/2006	EXAMINER	
FLESHNER & KIM, LLP P.O. BOX 221200 CHANTILLY, VA 20153			VU, DAVID HUNG	
			ART UNIT	PAPER NUMBER
			2828	

DATE MAILED: 05/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

22

Office Action Summary	Application No. 10/630,720	Applicant(s) KANG ET AL.	
	Examiner David Vu	Art Unit 2828	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 February 2006.
 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10, 12-21, 23, 25-28, 30-32 and 66-71 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) ☒ Claim(s) 1-10, 12-21, 23, 25-27 is/are allowed.
 6) ☒ Claim(s) 28, 30-32, 66-71 is/are rejected.
 7) ☐ Claim(s) _____ is/are objected to.
 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>12/22/05</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

1. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 28, 30-32, and 66-70 are rejected under 35 U.S.C. 102(e) as being anticipated by Kanazawa, US 2002/0105278 (of record).

Kanazawa discloses a plasma display method comprising applying first and second sustain pulses (asymmetric or symmetric) to first and second row electrodes X,Y wherein a rising edge of the first pulses are shorter or longer than a rising edge of second sustain pulses, see, for example, figures 1-4, 7-13, and 15A-E, paragraphs, [0039], [0042]-[0049],[0049].

Regarding claims 31-32, first pulses are applied to scan electrodes and second pulses to sustain electrodes. The pulses are applied during a sustain period.

Regarding claims 66-67, at least figure 10 shows rising edge of second pulse has a steeper slope than that of the first pulse. The pulses are asymmetric in width.

Art Unit: 2828

Regarding claim 68, width of the first pulse is shorter or longer than that of the second pulse.

Regarding claim 69, the second potential is maintained for a prescribed period of time after the rising edge wherein a rising edge of the first pulse is shorter than that of the second pulse.

Regarding claim 70, a time period for the rising edge of the first pulse is shorter than that of the second pulse.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 71 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakazawa.

Nakazawa as discussed from the above, essentially discloses the claimed invention including scan and sustain electrodes X,Y arranged in parallel on first substrate, address electrodes 3 arranged in perpendicular to X and Y electrodes on second substrate, and cells at intersection of address, scan, and sustain electrodes. Nakazawa does not explicitly disclose barrier ribs. However, barrier ribs are very well known in the display art. It would be obvious to one having ordinary skill in the art at

Art Unit: 2828

the time of applicant's claimed invention was made to have selected to have employed barrier ribs; thus, brightness enhancement would have been realized.

Allowable Subject Matter

6. Claims 1-10, 12-21, 23, and 25-27 are allowed.

Response to Arguments

7. Applicant's arguments, filed 2/27/2006 have been fully considered and are persuasive. However, upon further consideration, a new ground(s) of rejection is made in view of Kanazawa, US Pub No 2002/0105278.

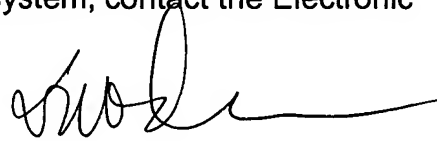
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Vu whose telephone number is (571) 272-1831. The examiner can normally be reached on M-F 8am-430pm.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2828

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'David Vu', with a long horizontal flourish extending to the right.

David Vu
Primary Examiner
Art Unit 2828

dv